	Nevada Bureau of Air Pollution Control Calendar Year 2006 Actual Production/Emission Reporting Form Addendum for Mercury Emissions											
			Calendar	Year 2006 A					ercury Emissions			
						Cumulative NMCP						
	Pollutant ID		Production Units		Emissions	HG Annual		HG Co-Produc	Notes			
		Rate	(eg. tons/yr)			Emissions (lbs/yr)	Operated	(tons/yr)				
			win Creeks Mine:									
System De						s at a time) - S2.001						
	Hg	41.90	tpy	0.0000853	lbs/hr	0.0358	420	0				
System De						s at a time) - S2.001						
0 -1 0	Hg	43.80	tpy	0.00208	lbs/hr	0.9027	434	0				
System De		niper Mill Carbon		0.00040	He e /le e	00.0050	7.004					
Cyatam Da	Hg	5,650.00 rcury Retort Circu	tpy	0.00313	lbs/hr	23.8850	7,631	0				
System De	Scription: ivie	18.78	tpy	0.000133	lbs/hr	0.4680	3,519	2.31				
System Do		rcury Retort Circu		0.000133	105/111	0.4000	3,319	2.31				
System De	На	17.37	tpy	0.0000187	lbs/hr	0.0617	3,298	2.12				
System De		rcury Retort Circu		0.0000107	103/111	0.0017	0,200	2.12				
Cyolom Do	Hq	18.61	tpy	0.0000271	lbs/hr	0.0885	3,264	2.23	T			
System De)	rcury Retort Circu		0.00002		0.0000	0,20					
	Hg	19.61	tpy	1.071E-06	lbs/hr	0.0038	3,519	2.25				
System De	scription: Pin	on Carbon Kiln -					· ·					
	Hg	0.00	tpy	0.171	lbs/hr	0.0000	0	0	Unit did not operate in 2006.			
System De	scription: Sag	ge Mill Autoclave	(Phase 1) - S2.02	23								
	Hg	1,673,331.00	tpy	0.018559	lbs/hr	153.4273	8,267	0	Emissions factor based on October, 2006 test data.			
System De	scription: Sag		(Phase 2) - S2.02									
	Hg	1,624,170.00	tpy	0.00795		64.0770	8,060	0				
System De			(six cells ducted									
	Hg	800,000.00	sol tons/yr	0.00486	lbs/hr	42.5736	8,760	0				
System De			t & Barren Tanks									
0 1 -	Hg	800,000.00	sol tons/yr	0.0163	lbs/hr	142.7880	8,760	0				
System De		on Mill Pregnant		0.000155								
0 5	Hg	800,000.00	sol tons/yr	0.000133	lbs/hr	1.1651	8,760	0				
System De		on Mill Barren Sc		0.000400	11 - /1	4.4054	0.700					
Cueta a D	Hg	800,000.00	sol tons/yr	0.000133		1.1651	8,760	0				
System De			Preparation Circui	t (includes Dr	<u> </u>		I	0	Accuracy 4000/ valetization			
	Hg	116.40	tpy		lbs/hr	3.7300		0	Assumes 100% volatization.			

System De		ooratory Assay Fu	ırnaces - S2.012	- S2.016					
	Hg	6.90	tpy		lbs/hr	0.0000		0	Assumes 100% volatization.
System De	scription: Lab	ooratory Leco Fur	nace						
	Hg	3.00	tpy		lbs/hr	0.0000		0	Assumes 100% volatization.
					acility Total:	434.3715		8.9100	
		sources USA, Inc							
System De		stem 40: West Ro							
	Hg	459,549.00	tpy	0.0004	lbs/ton	183.8196	6,837	1.39	Estimate based on 2004 testing.
System De		stem 42: East Ro							
	Hg	520,625.00	tpy	0.000114	lbs/ton	59.3513	6,551	1.57	Estimate based on 2004 testing.
System De	scription: Car	rbon Bed Venturi	Scrubber (Syster	m 49: Carbon	Kiln - S2.041	& System 51: Reto	ort - S2.051)		
									Estimate based on 2006 testing, Hg co-product accounted for
	Hg	47.00	tpy	0.02139	lbs/ton	1.0053	1,541	See Note	under roasters.
System De	scription: Sys	stem 35: Ore Dry	er - S2.026						
									Based on March, 2007 testing, submitted to NDEP April, 2007.
	Hg	974,738.00	tpy	0.00001403	lbs/ton	13.6756	4,958	N/A	
System De	scription: Ele	ctrowinning Cells							
	Hg	N/A		0	lbs/hr	0.0000	N/A	N/A	Based on February, 2001 testing.
System De	scription: Sys	stem 50: Refining	Process (S2.05	0) Induction Fu	ırnace				
									Based on 2006 sample of induction feed. Hg co-product
	Hg	10.51	tpy	130	ppm Hg	2.7000	831	See Note	accounted for under roasters.
System De	scription: Lab	ooratory: Large C	re Drying Ovens	(5 Units)					
	Hg	1,094,530.00	lbs/yr	29.9	ppm Hg	32.7000	N/A	N/A	Assumes 100% volatization.
System De	scription: Oth	ner Lab Processes	s downstream of	the Large Dryi	ng Ovens				
	Hg	58,667.00	lbs/yr	0	ppm Hg	0.0000	N/A	N/A	All Hg assumed to be volatized in the Large Drying Ovens.
System De	scription: Lab	ooratory Small Or	e Dryer (1 Unit)						
	Hg	6,652.00	lbs/yr	100	ppm Hg	0.6700	N/A	N/A	Assumes 100% volatization.
System De	scription: Oth	ner Lab Processes	s downstream of	the Small Dryi					
	Hg	423.00	lbs/yr	0	ppm Hg	0.0000	N/A	N/A	All Hg assumed to be volatized in the Small Drying Oven.
System De	scription: Lab	ooratory Hot Plate	es (2 Units)						
	Hg	977.80	lbs/yr	2.8	ppm Hg	0.0027	N/A	N/A	Concentrations per WPCP Quarterly testing, max value.
			•						
				F	acility Total:	293.9245		2.9600	

Courses M	oversent Minin	g Corporation - G	ald Ouerna AD1	044 0702					
		<u> </u>		041-0793					
System De		TP Dry-Grinding		4 00755 07	Us a /t a ra	0.5050	7.540	0	
0	Hg	3,156,763.00	tpy	1.8875E-07	lbs/ton	0.5958	7,519	0	
System De		TP Ore Preheate		0.000005		54,0000	7.000		
0 1 5	Hg	3,073,402.00	tpy	0.006805	lbs/hr	51.9222	7,630	0	
System De		TP Ore Roasters							
_	Hg	3,073,402.00	tpy	0.000433	lbs/hr	3.3038	7,630	0.62	
System De		TP North Calcine							
	Hg	1,365,051.00	tpy	0.011412	lbs/hr	86.9823	7,622	0	
System De		uth Calcine Quen							
	Hg	1,708,351.00	tpy	0.007024	lbs/hr	53.5931	7,630	0	
System De		RL Carbon Kiln							
	Hg	6,121.50	tpy	0.011673	lbs/hr	71.5438	6,129	0.01	
System De	scription: AA	RL Carbon Kiln C							
	Hg	33,693.90	MMBTU/yr	0.000216	lbs/hr	1.3239	6,129	0	
System De	scription: AA	RL Carbon Stripp	ing (Pregnant) Ta						
	Hg	14,800.30	tpy	0.000418	lbs/hr	2.7458	6,569	0	
System De	scription: Zad	dra Carbon Kiln							
	Hg	7,064.50	tpy	0.002487	lbs/hr	17.2672	6,943	0.04	
System De	scription: Zad	dra Carbon Kiln C	combustion						
	Hg	39,396.00	MMBTU/yr	0.000047	lbs/hr	0.3263	6,943	0	
System De	scription: Re	finery Retorts							
	Hg	80.10	tpy	0.002846	lbs/hr	9.1983	3,232	2.05	
System De	scription: Re	finery Induction &							
	Hg	114.00	tpy	0.00922	lbs/hr	6.1811	670	0	
System De	scription: Re	finery Barren Tan		g (EW) Cells			•		
	Hg			0.00067	lbs/hr	5.3801	8,030	0	
System De	scription: Inte	egrated Lab Fusir	ng/Cupelling Furn	aces #'s 1 - 7			,		
			0 1 0						Emission rate is based on volume of samples processed,
									average mercury concentration and sample size assuming
	Hg	4.80	tpy	N/A	N/A	0.1000	N/A	0	100% volatization and release at the exhaust stacks.
System De		egrated Lab Griev		, -				-	
			,						Emission rate is based on volume of samples processed,
									average mercury concentration and sample size assuming
									0.1% volatization at operating temperatures and release at
	Hg	3,769.90	tpy	N/A	N/A	0.1000	N/A	0	the exhaust stacks.
<u> </u>	, ig	0,100.00	ιPy	1 1/71	1 1/ / 1	0.1000	1 1 / / \	U	the exhaust studies.

System De	escription: Ma	nual Lab Furnace	es						
	Hg	5.88	tpy	N/A	N/A	0.1300	N/A	0	Emission rate is based on volume of samples processed, average mercury concentration and sample size assuming 100% volatization and release at the exhaust stacks.
				1	Facility Total:	310.6937		2.7200	
		ng Corporation - M			6.01				
System De		finery Furnaces #	1 & #2 - S2.035 8						
	Hg			0.018	lbs/hr	16.4700	915	0	Emissions factor from 2001 stack testing.
System De	escription: Re	tort A - S2.037							
	Hg			0.0000303	lbs/hr	0.0939	3,100	0	Emissions factor from 2003 stack testing. Throughput not reported, only heat rate. Calculations and test results on file.
System De		tort B - S2.038					,		
	Hg			0.000245	lbs/hr	0.6162	2,515	0	Emissions factor from 2003 stack testing. Throughput not reported, only heat rate. Calculations and test results on file.
					Facility Total:	17.1801		0.0000	
Source: B	ald Mountain	Mine Properties -	Huntington Valley	y: AP1041-13	362				
System De	escription: Ca	rbon Reactivation	n Kiln						
	Hg	532.50	tpy	0.179	lbs/ton	95.3175	4,899	0	Default factor from permit limits. Alternative emissions rate based on 2005 testing = 34.29 lbs/yr (.007 lbs/hr * 4,899).
System De		ectrowinning Cells							
	Hg	127,504.00	tpy				7,167	0	Emissions factor to be determined during 2007 testing.
System De	escription: Re								
_	Hg	13.82	tpy	0.02	lbs/ton	0.2764	1,637	2.94	Default factor from permit limits.
System De	escription: Bu	llion Furnace							
	Hg	10.87	tpy	10	lbs/ton	108.6900	453	0	Default factor from permit limits. Alternative emissions rate based on 2005 testing = 174.7 lbs/yr (.486 lbs/hr * 359.5).

Version #3 September 20, 2007

System Descri	ription: Fire	e Assay Lab (4 D	rying Ovens)						
	Hg							0	Assay Lab reported as one De Minimis Unit assuming 100%
System Descri	ription: Fire	e Assay Lab (2 Fi	re Assay Furnace	es)					volatization of mercury based on the following formula:
	Hg			Samples/Yr * Weight (g)/1 * Avg. Hg Content (ppmw) *					
System Descri	ription: Fire	e Assay Lab (6 H	ot Plates)	1/(1.00E+06) = Hg Emitted/Yr. Actual values are:					
	Hg							0	141,154 samples * 30g * 2ppmw / 1.00E-06 = 8.47g/yr /
System Descri	ription: Fire	e Assay Lab (1 At	tomic Adsorption	448 g/lb. = .0186 lbs/yr.					
	Hg							0	
					acility Total:			2.9400	
			pany - Denton-Ra	whide Mine: 1	AP1041-1116	5.02			
System Descri	_	rbon Regeneratio	n Kiln						
	Hg	0.00	tpy	0.53534	lbs/ton	0.0000	0		Kiln inoperable during 2006.
System Descri	ription: Ele	ctrowinning Circu	uit						
	Hg	12,249.80	tpy	0.00779	lbs/ton	95.4259	1,632	0.0477	
System Descri	ription: Sys	stem 1 - Mercury	Retort						
	Hg	21.21	tpy	0.08	lbs/ton	1.6968	3,606		
System Descri			Furnace Baghous						
	Hg	44.00	tpy	0.616	lbs/hr	254.4696	413	0.01442	
System Descri	ription: Fire	e Assay Lab Furn	ace Baghouse						
	Hg	0.05	tpy	0.01	lbs/ton	0.0005	416	<0.00001	
				F	acility Total:	351.5928		0.0621	

Source: Hycroft Reso	ources & Develonme	ent Inc - Crofoot/I	ewis Project	· AP1041-033	84.02			
System Description: N		, iiio. Ololoot/1	_cwis i loject	. 71 1041-030	77.02			
Hg	Troibury restore in 1							System did not operate in 2006.
System Description: N	Mercury Retort #2							cyclom and new specialism = 2000.
Hg	T							System did not operate in 2006.
System Description: N	Mercury Retort #3							
Hg								System did not operate in 2006.
System Description: F	Furnace #1							
Hg								System did not operate in 2006.
System Description: F	Furnace #2							
Hg								System did not operate in 2006.
System Description: I	Furnace #3							
Hg								System did not operate in 2006.
				E	0.0000		0.0000	
Onumer Matellic Visit	t In a . A D4044	4000		Facility Total:	0.0000		0.0000	
Source: Metallic Vent	<u>'</u>	-1202						
System Description: [Dore Furnace	Г		Г		T		System did not operate in 2006.
System Description: (Carbon Poactivation							System did not operate in 2006.
Hg	Carbon Neactivation	I KIIII						System did not operate in 2006.
119								Cystem did not operate in 2000.
				Facility Total:	0.0000		0.0000	
Source: Coeur D'Aler	ne Mining Corporation	on - Coeur Roches	ster Mine: Af	P1044-0063.02	2			
System Description: F								
Hg	250.26	tpy	0.0059	lbs/hr	2.8792	488	0	
System Description: F								
Hg	250.26	tpy	2.85E-10		0.0000	6,376	16.1	
System Description: A			ts listed belo	w)		1		
Hg	8.30	tpy	(41112		0.0080	9,704	0	
System Description: A			ren (4 Units)	, , , , , , , , , , , , , , , , , , ,	0.0000	4 700		
Hg	7.22	tpy			0.0000	1,726	0	
System Description: A					0.0000	404	^	
Hg	1.08	tpy	roro (0 In:to)		0.0000	484	0	
System Description: A	0.00	Ausorption Analyz	zers (Z Units)		0.0000	3,288	0	
System Description: A		Lurnaco (1 Linit)			0.0000	3,200	U	
Hg	0.00				0.0000	520	0	
	0.00				0.0000	520	U	

System De	scription: Ass	sav Lab - Wet Lal	b Hot Plates (2 Ur	nits)					
	На	0.00	(= 0.1			0.0000	3,650	0	
System De	scription: Ass	say Lab - Metallui	rgy Lab Hot Plate	(1 Units)	•		,		
	Hg	0.00				0.0000	36	0	
					Facility Total:	2.8872			
					16.1000				
		<u> </u>	one Tree Mine: A	P1041-0059					
System De		toclave, electrical	•						
	Hg	27,592.00	tpy	0.00539	lbs/hr	35.1590	6,523	0	Based on 2006 source test data.
System De		rbon Kiln, electric							
	Hg	611.00	tpy	0.205222	lbs/hr	572.1589	2,788	0	Based on 2006 source test data.
System De		ectrowinning Cells							
_	Hg	3.00	tpy	0.001442	lbs/hr	11.2822	7,824	0	Based on 2006 source test data.
System De		egnant and Barrer							
	Hg	N/A	N/A	0.00012	lbs/hr	1.0512	8,760	0	
System De	scription: Dry	ving Ovens	T						
									Based on a mass balance multiplying pounds of sample
								_	processed and the average Hg concentration (1.94 ppm),
	Hg	645.00	tpy			2.4500	<u> </u>	0	assuming 100 volatization.
System De		ne Tree Mine Lab	oratory		·		•		
	Hg	<u> </u>					<u> </u>	0	
System De		ne Tree Mine Lab	oratory - Fire Ass	ay Furnaces	·		•		
	Hg	<u> </u>					<u> </u>	0	
System De		ne Tree Mine Lab	oratory - Cress Fi	urnaces	T		1		
	Hg							0	
				ı	Facility Total:	622.1013		0.0000	
Source: C	ortez Gold Mi	nes - Pipeline Mir	ning Operation: A			022.1010		0.0000	
		finery Induction F		7000.00					
,	Hg	51.66	tpy	0.11	lbs/hr	56.4300	513	0	Tier 1 stack test conducted 03/06.
System De		ectric Carbon Rea	ctivation Kiln #1 (S2.006) & #2					
	Hg	4,420.00	tpy	0.025	lbs/hr	92.4500	3,698	0.12	Tier 1 stack test conducted 03/06 with both kilns online.
System De		,	(Train #1 - 3 cells						
	Hg	50.00	gal/min	0.00061	lbs/hr	5.3436	8,760	0	Tier 1 stack test conducted 04/06.
System De			(Train #2 - 3 cells						
	Hg	50.00	gal/min	0.000154	lbs/hr	1.3490	8,760	0	Tier 1 stack test conducted 04/06.

System De	escription: Ass	say Laboratory Fr	urnace Baghouse	<u> </u>					
,	Hg	0.01	tpy	0.000609	lbs/hr	4.8903	8,030	0	Tier 2.
System De	scription: Go	ld Sludge Drying	Oven						
									Based on engineering calculations & other design criteria.
	Hg	51.66	tpy	0.002	lbs/hr	3.0000	1,500	0	Tier 2 stack test scheduled for June 2007.
System De	escription: Ass		eco Induction Fu	rnaces					
	Hg	40,000.00	lbs/yr	1	ppm Hg	0.0000		0	
System De		say Laboratory, G							
	Hg	99.00	lbs/yr	0.3	ppm Hg	0.0000		0	
System De			Atomic Absorption						
	Hg	4,365.00	lbs/yr	0.3	ppm Hg	0.0013		0	
System De			Drying Oven (Wall	k through Griev					
	Hg	2,936,557.00	lbs/yr	1	ppm Hg	2.9366		0	
System De			Orying Oven (Sma	III Grieve)					
	Hg	277,782.00	lbs/yr	1	ppm Hg	0.2778		0	
System De			Drying Oven (Back	k-up Small Grie					
	Hg	4,762.00	lbs/yr	1	ppm Hg	0.0048		0	
System De			using/Cupelling F	Furnaces (DFC					
_	Hg	12,699.00	lbs/yr	1	ppm Hg	0.0127		0	
System De			Annealing Furnace	9					
_	Hg	159.00	lbs/yr	1	ppm Hg	0.0002		0	
System De		say Laboratory, F							
_	Hg	1,587.00	lbs/yr	1	ppm Hg	0.0016		0	
System De		say Laboratory, R		1 .1	1	0.05			
0	Hg	5.00	lbs/yr	1	ppm Hg	0.0000	<u> </u>	0	
System De		t Laboratory, Hot		1 .1	'	2 2 2 2 2	1		
0 1 0	Hg	5.00	lbs/yr	<u> </u>	ppm Hg	0.0000		0	
System De			nchtop Autoclaves	3 1	,, ,	2.222			
0 1 5	Hg	5.00	lbs/yr	<u> </u>	ppm Hg	0.0000		0	
System De		t Laboratory Dryi	, ·	1 41	11.	0.0070			
0	Hg	7,937.00	lbs/yr	1	ppm Hg	0.0079		0	
System De		ip Circuit Area, A		1 0.01		0.0004	T 1		
	Hg	198.00	lbs/yr	0.3	ppm Hg	0.0001		0	
				F	acility Total:	166.7059		0.1200	

Source: Fl	orida Canyon	Mining, Inc Flo	rida Canyon Mine	e: AP1041-01	06.02				
System De	scription: Me	rcurt Retorts	•						
	Hg	23,863.00	lb/yr	0.000042	lbs/lb	1.0022	1,030		Retort emissions factor calculated from 1993 stack test results; throughput for retorts and electrowinning circuits are the same.
System De	scription: Ass	say Lab							
	Hg	4,302.00	sample lbs/yr	0.000002	lbs/lb	0.0086			Emissions factor from De Minimis Determination Title V Inventory for Lab. Assay lab emissions calculated from Hg concentration in samples & annual throughput assuming all Hg in samples was emitted (volatized).
System De	scription: Sur	mmit Valley Elect	rowinning Cell Mo	del #75EC18					
	Hg	23,863.00	lbs/yr	0.0011	lbs/lb	26.2493			Emissions factor from industrial source with similar equipment; throughput for retorts and electrowinning circuits are the same.
System De	scription: Co	mbustion Air Inter	rnational Carbon I	Kiln Model #W	CC250DX-2				
	Hg	2,238.00	tpy	0.162	lbs/ton	362.5560			Emissions factor from industrial source with similar equipment.
System De		uctotherm Dore F							
	Hg	22,632.00	lbs/yr	0.00225	lbs/lb	50.9220	272	0.025461	Emissions factor comes from Title V Inventory.
System De	scription: Pre	gnant Tank							
	Hg	23,863.00	lbs/yr	0.0011	lbs/hr				Emissions factor from industrial source with similar equipment, however, hours not reported.
System De	scription: Bar	ren Tank							
	Hg	23,863.00	lbs/yr	0.0011	lbs/hr			0.002996	Emissions factor from industrial source with similar equipment, however, hours not reported.
					acility Total:	440.7382		0.2264	
			on - Smoky Valley		eration: AP10	041-0444.01			
System De			n Kiln: System 2		11 /4 1	22.2222	0.075		
0	Hg	3,618.00	tpy	0.0091	lbs/ton	32.9238	8,675		Based on Hg mass balance.
System De			rnace: System 2		lle e lt :	40.4000	707	0.0005	Fusing the party hand on the control of the control
Custom Da	Hg	44.30	tpy	0.23	lbs/ton	10.1890	767	0.0085	Emissions estimate based on Hg mass balance.
System De		inery Electrowinn	ning Vent - NP1.0		lbo/br	12.0004	0.700		Dagad on limited year compling data
	Hg			0.00159	lbs/hr	13.9284	8,760		Based on limited vent sampling data.

System De	scription: As	ssay Lab (4 Drying	Ovens)						
	Hg		,						Mass balance approach, emissions are for all twelve
System De	scription: As	say Lab (8 Assay	Furnaces)						Assay Lab units.
	Hg	365,000.00	lbs/yr	3.8E-08	lbs/lb	0.0139	8,760		
System De	scription: Hi	gh Grade Area (1	Drying Oven)						
	Hg	482.81	lbs/yr	0.000002	lbs/lb	0.0010	8,760		Mass balance approach, emissions are for all three
System De	scription: Hi	gh Grade Area (2	Assay Fusion Ful	naces)					High Grade Area units.
	Hg	63,875.00	lbs/yr	3.8E-08	lbs/lb	0.0024	8,760		
				_					
					acility Total:	57.0585		0.0085	
		ning Company - R		AP1041-0713.	.01				
System De		ectric Carbon Kiln		0.00	11 - /1 -	0.0000	1 040 1		To a superior to the large of
0 1 0	Hg	11.80	tpy	0.03	lbs/hr	9.3900	313	0	See attached calculations.
System De		ectric Mercury Ret		0.004	II /t	0.0005	1 040 1	0.5	Default emissions fester from a control
0	Hg	0.46	tpy	0.001	lbs/ton	0.0005	216	0.5	Default emissions factor from permit.
System De		ectric Refinery Ind			11 /1	0.0000	1 0 1		ID-to-Branch to to to to to a to a
O satara Da	Hg	0.07	tpy	5	lbs/ton	0.3600	6	0	Default emissions factor from permit.
System De		ectrowinning Cells	1 & 2 (IA1.005)	0.0000	II- a /I- a	40.0000	7 200		One official coloridations
Cyceters De	Hg	and ab		0.0026	lbs/hr	19.0320	7,320	0	See attached calculations.
System De	scription: As	Say Lab		Т			 		Custom did not approte in 2006
	Hg								System did not operate in 2006.
					acility Total:	28.7825		0.5000	
		ld Mine - Marigold							
System De					•	6 - October 17, 200			
	Hg	743.46	tpy	0.162	lbs/hr	893.6244	5,516	0	Emissions factor from January 17, 2006 source test.
System De	scription: Ca	arbon Kiln (existing	g drum with contro	ols from Octob	er 18, 2006 -	December 31, 200	06)		
									Emissions factor from January 17, 2006 source test
	Hg	132.10	tpy	0.00016	lbs/hr	0.2011	1,257	0	multiplied by 99.9% control efficiency.
System De		arbon Kiln (under d	construction)						
	Hg							0	System did not operate in 2006.
System De		ectrowinning Circu	uit (3 cells without			006 - October 17, 2			
	Hg			0.0011	lbs/hr	7.2072	6,552	0	Emissions factor from January 18, 2006 source test.
System De	scription: Ele	ectrowinning Circu	uit (3 cells with co	ntrols from Oct	tober 18, 200	6 - December 31, 2	2006)		
									Emissions factor from January 18, 2006 source test.
	Hg	N/A	N/A	0.000001	lbs/hr	0.0022	2,208	0	multiplied by 99.9% control efficiency.

System D	occription: Do	etort (current confi	guration)						
System D	Tescription. Re	7.71	ř – –	0.000834	lbs/hr	0.7564	907	0.1165	Emissions factor from December 19, 2005 source test.
	Hg	1.11	tpy	0.000634	109/111	0.7304	907	0.1165	0.051 tpy misc. clean-up.
System D		tort (future config	l uration)					0.001	10.001 tpy Illiso. clean-up.
System D	Hg	T					T	I	System not modified as of December 31, 2006.
System D			L current configurati	on)					System not modified as of December 31, 2000.
Cystem D	Hg	5.98	tpy	0.0089	lbs/hr	1.8939	213	0	Emissions factor from September 21, 2005 source test.
System D		nelting Furnace (f			103/111	1.0000	1 210		Emissions radio nom september 21, 2000 source test.
Cyclom B	Hg			l				I	System not modified as of December 31, 2006.
System D	escription: Pre	egnant Tank							
_ ,	Hg			0.0011	lbs/hr	2.1858	1,987	0	Common stack w/kiln - no data for barren tank alone.
System D	escription: Ba	rren Tank					,		
	Hg			0.0011	lbs/hr	2.1858	1,987	0	Common stack w/kiln - no data for barren tank alone.
System D	escription: As	say Lab (2 Drying	Ovens)				•		
	Hg		·			0.0022		0	Mass balance approach, 100% volatization assumed for
System D	escription: As	say Lab (1 Atomic	c Adsorption Anal	ytical Instrume	ent)				total of 83,051 samples processed during 2006. The
	Hg					0.0005		0	volatization rates used were: Drying Ovens - 5%,
System D		say Lab (2 Assay	Furnaces)						AA Instrument - 100%, Assay Furnaces - 99%,
	Hg					0.0015		0	Cupellation Furnace - 33% of remaining 1% from assay furn.,
System D		say Lab (Cupellat	tion Furnace)				_		Hot Plates - 33% of remaining 1% from assay furnaces,
	Hg		<u> </u>			0.0000	<u> </u>	0	Annealing Oven - 33% of remaining 1% from assay furnaces.
System D		say Lab (2 Hot Pl	ates)	1	1				See hard copy submittal for detailed discussion of emission
<u> </u>	Hg					0.0000	<u> </u>	0	calculations.
System D		say Lab (1 Annea	aling Oven)			2.222			
	Hg	<u> </u>	j			0.0000	 	0	
				,	To allitur Tatal	000 0040		0.4075	
Source: E	Poroalie Minine	Company: AP1	041 2125		Facility Total:	908.0610	<u> </u>	0.1675	
	escription: No		041-2120						
System D	Hg	Judinilla						l	Mine not yet operational, project on indefinite hold.
	1 119	<u>I</u>	<u> </u>				+		mino not yet operational, project on indefinite noid.
				ı	Facility Total:	0.0000		0.0000	
Source: F	Placer Turquois	se Ridge, Inc G	etchell Mine: AP		acinty rotal.	0.0000	<u>I</u>	0.0000	
		b Fire Assay/Cup			stem 5: S2.0	08 & S2.009)			
	Hg			0.000229	lbs/hr	0.3506	1,531		Stack test results on file, test performed 09/12/06.
System D		co Induction Furn	aces (2 Units)				,		, , , , , , , , , , , , , , , , , , , ,
	Hg	2,726.00	assays			0.0000	T	1	
		· · ·		•				•	•

System Des	ystem Description: Graphite Furnace (1 Unit)											
	Hg	6,830.00	analyses			0.0000						
System Des	scription: At	omic Absorption S	pectrometers (2 l	Jnits)								
	Hg	6,830.00	analyses			0.0000						
System Des	scription: Dr	ying Room (1 Unit	t)									
	Hg	16,293.00	samples			8.0461						
System Des	scription: Dr	ying Ovens (3 Uni	its - Carl Mauer)									
	Hg	5,431.00	samples			2.2682						
System Des	scription: Ar	nnealing Furnace ((1 Unit)									
	Hg	37,884.00	samples			0.0009						
System Des		otplates (3 Units)										
	Hg	37,884.00	samples			0.0094						
System Des		pasting Oven (1 U										
	Hg	2,726.00	samples			0.0000						
System Des		gestion Blocks (1										
	Hg	0.00	samples			0.0000						
System Des		enchtop Autoclave	(1 Unit)									
	Hg	0.00	tests			0.0000						
System Des		ying Ovens (1 Uni										
	Hg	0.00	samples			0.0000						
				F	acility Total:	10.6752		0.0000				
Source: Bat	ttle Mountai	n Gold Company -	Reona & Phoeni									
System Des	scription: Ele	ectric Carbon Kiln	(S2.002)	·								
	Hg	3,727.00	tpy	0.000366	lbs/hr	2.2736	6,212	0				
System Des	scription: Ele	ectrowinning Cells										
	Hg			0.00000466	lbs/hr	0.0308	6,600	0				
System Des	scription: Pr	egnant & Barren S	Solution Vent Sys									
	Hg			2.65E-07	lbs/hr	0.0017	6,600	0				
System Des		etort (S2.014)										
	Hg	2.80	tpy	0		0.0000	112	0				
				F	acility Total:	2.3061		0.0000				

Carrage Calder Dhase	i. Minanala Ina	A D4044 0004 04							
Source: Golden Phoenix Minerals, Inc.: AP1041-0694.01 System Description: Dore Furnace									
,	ore Furnace							Facility in town orang along a system alid not an arotro in 2000	
Hg	/CT Camabban							Facility in temporary closure, system did not operatre in 2006.	
System Description: W	/ET Scrubber							To ellitaria te que escara el como escatare distrat en cartas in 0000	
Hg	Lantan da da Calla							Facility in temporary closure, system did not operatre in 2006.	
System Description: E	lectrowinning Cell	1				1			
Hg								Facility in temporary closure, system did not operatre in 2006.	
System Description: E	lectrowinning Cell								
Hg								Facility in temporary closure, system did not operatre in 2006.	
System Description: S	ludge Dryer								
Hg								Facility in temporary closure, system did not operatre in 2006.	
			F	acility Total:	0.0000		0.0000		
Source: Barrick Goldst									
System Description: R									
Hg	5,858,384.00	tpy	0.00003996	lbs/ton	234.1010	8,573	98.55	Facility-wide Elemental and Calomel.	
System Description: C									
Hg	10,153.00	tpy	0.024452	lbs/ton	248.2612	7,361	0	See Table C for emissions factor rationale.	
System Description: A									
Hg	833,725.00	tpy	0.0000128	lbs/ton	10.6717	8,149	0	See Table C for emissions factor rationale.	
System Description: A	utoclaves #2 & #3:	System 66 - S2.	016 & S2.017						
Hg	2,189,423.00	tpy	0.0000128	lbs/ton	28.0246	16,267	0	See Table C for emissions factor rationale.	
System Description: A	utoclave #4: Syste	em 66 - S2.018							
Hg	1,134,601.00	tpy	0.0000128	lbs/ton	14.5229	8,025	0	See Table C for emissions factor rationale.	
System Description: A	utoclaves #5 & #6:	System 66 - S2.	019 & S2.020						
Hg	2,404,369.00	tpy	0.0000128	lbs/ton	30.7759	16,796	0	See Table C for emissions factor rationale.	
System Description: M	lercury Retorts #1		S2.009 - S2.0)11					
Hg			0.000423	lbs/hr	3.3713	7,970	0	See Table C for emissions factor rationale.	
System Description: W	est & East Melting	Furnaces & Elec	trowinning Cel	Is Combined	(vented through a	common car	bon filter): Sy	stem 68 - S2.013 & S2.014	
Hg	100.80	tpy	0.0916	lbs/ton	9.2333	1,019	0	See Table C for emissions factor rationale.	
System Description: E	lectrowinning Cells								
Hg	1		0.00282	lbs/hr	20.8144	7,381	0	See Table C for emissions factor rationale.	
System Description: M	lill #1 Air Pre-Heate	er and Dry Grindin	ng Process: Sv	ystem 15 - S					
Hg	2,732,156.00	tpy	TBD	TBD	TBD	7,969	0	Emissions to be determined based on source testing	
System Description: M						,		scheduled for July, 2007.	
Hg	2,648,982.00	tpy	TBD	TBD	TBD	7,907	0		
System Description: A						,		<u></u>	
Hg	45.35	tpy	0.36	lbs/ton	16.3260	8,760	0	See attached calculations for Assay Lab equipment.	
		·r <i>j</i>	0.00	0, 1011	. 5.5255	5,. 55	, ,	The same state and the same state and same state an	

System Description: As	ssay Laboratory: I	Leco Induction Fu	rnaces							
Hg	11.00	lbs/yr		pm Hg	0.0003		0	See attached calculations for Assay Lab equipment.		
System Description: Assay Laboratory: Graphite Furnace										
Hg	6.60	lbs/yr	25.79 p	pm Hg	0.0002		0	See attached calculations for Assay Lab equipment.		
System Description: As	System Description: Assay Laboratory: Atomic Absorption Spectrometers									
Hg	6,613.90	lbs.yr	25.79 p	pm Hg	0.2000		0	See attached calculations for Assay Lab equipment.		
System Description: As	ssay Laboratory: I	Mercury Analyzer								
Hg	1.50	lbs/yr	25.79 p	pm Hg	0.0000		0	See attached calculations for Assay Lab equipment.		
System Description: Assay Laboratory: Hot Plates										
Hg	1.30	lbs/yr	25.79 p	pm Hg	0.0000		0	See attached calculations for Assay Lab equipment.		
System Description: Assay Laboratory: Digestion Blocks										
Hg	80.50	lbs/yr	25.79 p	pm Hg	0.0020		0	See attached calculations for Assay Lab equipment.		
System Description: As										
Hg	5.50	lbs/yr	25.79 p	pm Hg	0.0001		0	See attached calculations for Assay Lab equipment.		
System Description: As	, ,									
Hg	87.10	lbs/yr		pm Hg	0.0020		0	See attached calculations for Assay Lab equipment.		
System Description: Mo										
Hg	850.40	lbs/yr	25.79 p	pm Hg	0.0200		00	See attached calculations for Assay Lab equipment.		
System Description: Mo			0==0	1		 				
Hg	1.30	lbs/yr		pm Hg	0.0000		0	See attached calculations for Assay Lab equipment.		
System Description: Mo					0.0040	1		One official and a latitude for Association and association		
Hg	160.90	lbs/yr		pm Hg	0.0040		0	See attached calculations for Assay Lab equipment.		
System Description: Mo					0.0000	т т		Con attack and an Invitation of the Annual lab and invitation of		
Hg	687.80	lbs/yr		pm Hg	0.0200		0	See attached calculations for Assay Lab equipment.		
System Description: Mo	4,960.40	lbs/yr		nm Ha	0.1000	П	0	See attached calculations for Assay Lab equipment		
System Description: As		•		pm Hg	0.1000		0	See attached calculations for Assay Lab equipment.		
Hg	199.80	tpy	0.000119 lbs	Ha/ton I	0.0240		0	See attached calculations for Assay Lab equipment.		
System Description: Mi			0.000113 103	5 i ig/toi i	0.0240		<u> </u>	Occ attached calculations for Assay Lab equipment.		
Hg	482.80	lbs/yr	25.79 p	pm Hg	0.0100		0	See attached calculations for Assay Lab equipment.		
System Description: Mi		•	20.70 β	Pilitig	0.0100			Coo attached calculations for Accay Lab equipment.		
Hg	17.70	lbs/yr	25.79 p	pm Hg	0.0005	<u> </u>	0	See attached calculations for Assay Lab equipment.		
System Description: Strip Circuit Area: AA Machine										
Hq	5,000.00	lbs/yr	25.79 p	pm Hg	0.1300	T T	0	See attached calculations for Assay Lab equipment.		
System Description: Autoclave Met Laboratory: Lecos										
Hg	17.70	lbs/yr	25.79 p	pm Hg	0.0005		0	See attached calculations for Assay Lab equipment.		
	1	5, , .	P					The state of the s		

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System Description: Autoclave Met Laboratory: Drying Oven										
	Hg	482.80	lbs/yr	25.79	ppm Hg	0.0100		0	See attached calculations for Assay Lab equipment.	
System Description: Autoclave Met Laboratory: Hot Plate										
	Hg	357.30	lbs/yr	25.79	ppm Hg	0.0090		0	See attached calculations for Assay Lab equipment.	
System Description: Roaster Pumphouse Laboratory: AA Machine										
	Hg	5,000.00	lbs/yr	25.79	ppm Hg	0.1300		0	See attached calculations for Assay Lab equipment.	
					Facility Total:	616.7650		98.5500		
	Source: The Plum Mining Company, LLC - Billy The Kid Mine: AP1041-0936									
System De	escription: No	Submittal								
	Hg									
				1	Facility Total:	0.0000		0.0000		
Source: Royal Standard Minerals, Inc Manhattan Mine: AP1041-1457										
System Description: No Submittal										
	Hg								Mine not yet operational, project on indefinite hold.	
					Facility Total:	0.0000		0.0000		
						Cumualtive		Cum. Co-Prod.		
						lbs/yr.		tpy		
						4,468.15	Total	133.26		